SEQUENCE LISTING

	Lyamichev, Tatiana	Victor	Alla	ıwi, Hatim	Dong,	Fang	Neri,	Bruce
<120>	Nucleic A	cid Acces	sible Hyb	oridization	n Sites			
<130>	FORS-0458	6						
<140>	Not yet a	ssigned						
<141>	2001-06-1	.5						
<160>	334							
<170>	PatentIn	version 3	3.0					
<210>	1 <211>	391 <212>	DNA <21	13> Artif	icial <220>	<223> Syn	thetic	
<400> agctcg	1 statg gcaco	eggaac egg	gtaaggac g	gegateacea	gcggcatcga	ggtcgtatgg	60	
acgaac	accc cgac	gaaatg gga	acaacagt t	ttcctcgaga	tectgtacgg	ctacgagtgg	120	
gagete	jacga agago	cectge tgg	gegettgg (caatacaccg	ccaaggacgg	cgccggtgcc	180	
ggcaco	atcc cggad	eccgtt cgg	gegggeea g	gggcgctccc	cgacgatgct	ggccactgac	240	
ctctcg	getge gggtg	ggatcc gat	tctatgag (cggatcacgc	gtcgctggct	ggaacacccc	300	ı
gaggaa	attgg ccgad	gagtt cg	ccaaggcc	tggtacaagc	tgatccaccg	agacatgggt	360	ı
cccgtt	gega gata	cattgg ga	eggtggtc	c			391	
<210>	2 <211>	391 <212	> DNA <2	13> Artif	icial <220:	> <223> Syr	nthetic	:
<400>	2 gtatg gcac	cggaac cg	gtaaggac	gcgatcacca	ceggeatega	ggtcgtatgg	60)
acgaad	caccc cgac	gaaatg gg	acaacagt	ttcctcgaga	teetgtaegg	ctacgagtgg	120)
gaget	gacga agag	ccctgc tg	gcgcttgg	caatacacco	ccaaggacgg	cgccggtgcc	180)
ggcac	catec egga	cccgtt cg	gegggeea	gggcgctccc	: cgacgatgct	ggccactgac	240)
ctctc	getge gggt	ggatcc ga	tctatgag	cggatcacgo	gtcgctggct	ggaacacccc	300)
gagga	attgg ccga	cgagtt cg	ccaaggcc	tggtacaago	tgatccaccg	agacatgggt	360)
cccgt	tgcga gata	ccttgg gc	cgctggtc	С			391	1
<210>	3 <211>	391 <212	> DNA <2	13> Artii	ficial <220	> <223> Sy	ntheti	C
<400> agctc	3 gtatg gcac	cggaac cg	gtaaggac	gcgatcacca	a geggeatega	ggtcgtatgg	6	0

acgaac	accc cgac	gaaatg g	ggacaacagt	ttcctcgaga	tcctgtacgg	ctacgagto	gg 120
gagctg	acga agag	jecetge t	tggcgcttgg	caatacaccg	ccaaggacgg	cgccggtgd	ec 180
ggcacc	atcc cgga	cccgtt d	cggcgggcca	gggcgctccc	cgacgatgct	ggccactga	ac 240
ctctcg	ctgc gggt	ggatcc g	gatctatgag	cggatcacgc	gtcgctggct	ggaacacco	ec 300
gaggaa	ttgg ccga	cgagtt c	egccaaggcc	tggtacaagc	tgatccaccg	agacatggg	jt 360
cccgtt	gcga gata	ccttgg g	gccgctggtc	С			391
<210>	4 <211>	391 <21	12> DNA <2	213> Artifi	icial <220:	> <223> S	Synthetic
<400> agctcg	4 tatg gcac	cggaac c	cggtaaggac	gcgatcacca	ccggcatcga	ggtcgtatg	j g 60
acgaac	accc cgac	gaaatg g	ggacaacagt	ttcctcgaga	tcctgtacgg	ctacgagtg	g 120
gagetga	acga agag	ccctgc t	ggcgcttgg	caatacaccg	ccaaggacgg	cgccggtgc	c 180
ggcacca	atcc cgga	.cccgtt c	eggegggeea	gggcgctccc	cgacgatgct	ggccactga	ıc 240
ctctcg	ctgc gggt	ggatcc g	gatctatgag	cggatcacgc	gtcgctggct	ggaacaccc	c 300
gaggaat	ttgg ccga	cgagtt c	gccaaggcc	tggtacaagc	tgatccaccg	agacatggg	ıt 360
cccgtt	gcga gata	ccttgg g	gccggtggtc	С			391
<210>	5 <211>	20 <212	2> DNA <21	.3> Artific	cial <220>	<223> Sy	nthetic
<400> agctcgt	5 catg gcac	cggaac					20
<210>	6 <211>	20 <212	:> DNA <21	.3> Artific	cial <220>	<223> Sy	nthetic
<400> ttgacct	6 ccc accc	gacttg					20
<210>	7 <211>	21 <212	> DNA <21	.3> Artific	ial <220>	<223> Sy	nthetic
<400> agctcgt	7 atg gcac	cggaac c	* :		·		21
<210>	8 <211>	20 <212	> DNA <21	3> Artific	ial <220>	<223> Sy	nthetic
<400>	8 gegg ceca	aggtat					20
J	,-99 0000	95040					20
<210>	9 <211>	22 <212	> DNA <21	3> Artific	ial <220>	<223> Sy	nthetic

<400> 9 ggaccaccgg cccaaggtat ct 22							
<210>	10 <211>	21 <212>	DNA <213>	Artificial	<220> <223>	Synthetic	
<400> tttttg	10 Jacga tggtg	gatege g				21	
<210>	11 <211>	12 <212>	DNA <213>	Artificial	<220> <223>	Synthetic	
<400> ggagag	11 ccat ag					12	
<210>	12 <211>	11 <212>	DNA <213>	Artificial	<220> <223>	Synthetic	
<400> tggtct	12 gcgg a					11	
<210>	13 <211>	11 <212>	DNA <213>	Artificial	<220> <223>	Synthetic	
<400> ggacga	13 ccgg g					11	
<210>	14 <211>	11 <212>	DNA <213>	Artificial	<220> <223>	Synthetic	
<400> ggagat	14 ttgg g					11	
<210>	15 <211>	11 <212>	DNA <213>	Artificial	<220> <223>	Synthetic	
<400> ccgcga	15 gact g					11	
<210>	16 <211>	12 <212>	DNA <213>	Artificial	<220> <223>	Synthetic	
<400> ctagec	16 gagt ag					12	
<210>	17 <211>	11 <212>	DNA <213>	Artificial	<220> <223>	Synthetic	
<400> tgttggg	17 gtcg c					11	
<210>	18 <211>	11 <212>	DNA <213>	Artificial	<220> <223>	Synthetic	
<400> ccgcgag	18 gacc g					11	

<pre><210> 19 <211> 11 <212> DNA <213> Artificial <220> <223> Synthetic</pre>
<400> 19 ccgcaagacc g 11
<210> 20 <211> 289 <212> DNA <213> Artificial <220> <223> Syntheti
<400> 20 gattetgtet teaegeagaa agegtetage eatggegtta gtatgagtgt egtgeageet 60
ccaggacccc ccctcccggg agagccatag tggtctgcgg aaccggtgag tacaccggaa 120
ttgccaggac gaccgggtcc tttcttggat caacccgctc aatgcctgga gatttgggcg 180
tgccccgca agactgctag ccgagtagtg ttgggtcgcg aaaggccttg tggtactgcc 240
tgatagggtg cttgcgagtg ccccgggagg tctcgtagac cgtgcaatc 289
<210> 21 <211> 286 <212> DNA <213> Artificial <220> <223> Syntheti <400> 21
gattetgtet teaegeagaa agegtetage eatggegtta gtatgagtgt egtgeageet 60
ccaggtcccc ccctcccggg agagccatag tggtctgcgg aaccggtgag tacaccggaa 120
ttgccaggac gaccgggtcc tttcttggat caacccgctc aatgcctgga gatttgggcg 180
tgccccgcg agactgctag ccgagtagtg ttgggtcgcg aaaggccttg tggtactgcc 240
tgatagggtg cttgcgagtg ccccgggagg tctcgtagac cgtgca 286
<210> 22 <211> 289 <212> DNA <213> Artificial <220> <223> Syntheti
<pre><400> 22 gattctgtct tcacgcagaa agcgtctagc catggcgtta gtatgagtgt cgtacagcct 60</pre>
ccaggeceee eecteeeggg agagecatag tggtetgegg aaccggtgag tacaccggaa 120
ttgccgggaa gactgggtcc tttcttggat aaacccactc tatgcccggc catttgggcg 180
tgccccgca agactgctag ccgagtagcg ttgggttgcg aaaggccttg tggtactgcc 240
tgatagggtg cttgcgagta ccccgggagg tctcgtagac cgtgcaatc 289
<210> 23 <211> 289 <212> DNA <213> Artificial <220> <223> Synthetic
<pre><400> 23 gattctgtct tcacgcagaa agcgcctagc catggcgtta gtacgagtgt cgtgcagcct 60</pre>
ccaggacccc ccctcccggg agaaccatag tggtctgcgg aaccggtgag tacaccggaa 120

tegetggggt gacegggtee tttettggag caaceegete aatacecaga aatttgggeg 1	180
tgccccgcg agatcactag ccgagtagtg ttgggtcgcg aaaggccttg tggtactgcc 2	240
tgatagggtg cttgcgagtg ccccgggagg tctcgtagac cgtgcaatc 2	289
<210> 24 <211> 18 <212> DNA <213> Artificial <220> <223> Synthet	ic
<400> 24 ctcgcaagca ccctatca	18
<210> 25 <211> 21 <212> DNA <213> Artificial <220> <223> Synthet	cic
<400> 25 gcagaaagcg tctagccatg g	21
<210> 26 <211> 244 <212> DNA <213> Artificial <220> <223> Synthe	etic
<400> 26 gcagaaagcg tctagccatg gcgttagtat gagtgtcgtg cagcctccag gaccccccct	60
cccgggagag ccatagtggt ctgcggaacc ggtgagtaca ccggaattgc caggacgacc 1	120
gggtcctttc ttggatcaac ccgctcaatg cctggagatt tgggcgtgcc cccgcaagac 1	180
tgctagccga gtagtgttgg gtcgcgaaag gccttgtggt actgcctgat agggtgcttg 2	240
cgag 2	244
<210> 27 <211> 244 <212> DNA <213> Artificial <220> <223> Synthe	etic
<400> 27 gcagaaagcg tctagccatg gcgttagtat gagtgtcgtg cagcctccag gtcccccct	60
cccgggagag ccatagtggt ctgcggaacc ggtgagtaca ccggaattgc caggacgacc 1	L20
gggtcctttc ttggatcaac ccgctcaatg cctggagatt tgggcgtgcc cccgcgagac 1	L80
tgctagccga gtagtgttgg gtcgcgaaag gccttgtggt actgcctgat agggtgcttg 2	240
cgag 2	244
<210> 28 <211> 244 <212> DNA <213> Artificial <220> <223> Synthe	tic
<400> 28 gcagaaagcg tctagccatg gcgttagtat gagtgtcgta cagcctccag gccccccct	60
cccgggagag ccatagtggt ctgcggaacc ggtgagtaca ccggaattgc cgggaagact 1	L20
gggtcctttc ttggataaac ccactctatg cccggccatt tgggcgtgcc cccgcaagac 1	L80
tgctagccga gtagcgttgg gttgcgaaag gccttgtggt actgcctgat agggtgcttg 2	240

cgag	244
<210> 29 <211> 244 <212> DNA <213> Artificial <220> <223> Synth	netic
<400> 29 gcagaaagcg cctagccatg gcgttagtac gagtgtcgtg cagcctccag gacccccct	60
cccgggagaa ccatagtggt ctgcggaacc ggtgagtaca ccggaatcgc tggggtgacc	120
gggtcctttc ttggagcaac ccgctcaata cccagaaatt tgggcgtgcc cccgcgagat	180
cactageega gtagtgttgg gtegegaaag geettgtggt aetgeetgat agggtgettg	240
cgag	244
<210> 30 <211> 216 <212> DNA <213> Artificial <220> <223> Synth	etic
<400> 30 cagaaagggt ttagccatgg ggttagtatg agtgtcgtac agcctccagg ccccccctc	60
ccgggagagc catagtggtc tgcggaaccg gtgagtacac cggaattgcc gggaagactg	120
ggtcctttct tggataaacc cactctatgc ccggccattt gggcgtgccc ccgcaagact	180
gctagccgag tagcgttggg ttgcgaaagg ccttgt	216
<210> 31 <211> 244 <212> DNA <213> Artificial <220> <223> Synth	ıetic
<400> 31 cagaaagggt ttagccatgg cgttagtatg agtgtcgtgc agcctccagg acccccctc	60
ccgggagagc catagtggtc tgcggaaccg gtgagtacac cggaattgcc aggacgaccg	120
ggtcctttct tggataaaac ccgctcaatg cctggagatt tgggcgtgcc cccgcaagac	180
tgctagccga gtagtgttgg gtcgcgaaag gccttgtggt actgcctgat agggtgcttg	240
caag	244
<210> 32 <211> 239 <212> DNA <213> Artificial <220> <223> Synth	etic
<400> 32 gcagaaaggt ttagccatgg gttagtatga gtgtcgtgca gcctccagga cccccctcc	60
cgggagagcc atagtggtct gcggaaccgg tgagtacacc ggaattgcca ggacgaccgg	120
gtcctttctt ggattaaccc gctcaatgcc tggagatttg ggcgtgcccc cgcaagactg	180
ctagccgagt agtgttgggt cgcgaaaggc cttgtggtac tgcctgatag ggtgcttgc	239
<210> 33 <211> 240 <212> DNA <213> Artificial <220> <223> Synth	etic

<400> 33 gcagaaaggt ttagccatgg ggttagtatg agtgtcgtac agcctccagg acccccctc	60
ccgggagagc catagtggtc tgcggaaccg gtgagtacac cggaattgcc aggacgaccg	120
ggtcctttct tggataaacc cgctcaatgc ctggagattt gggcgtgccc ccgcaagact	180
gctagccgag tagtgttggg tcgcgaaagg ccttgtggta ctgcctgata gggtgcttgc	240
<210> 34 <211> 240 <212> DNA <213> Artificial <220> <223> Synt	thetic
<400> 34 gcagaaaggg tttagccatg gcgttagtat gagtgtcgta cagcctccag gccccccct	60
cccgggagag ccatagtggt ctgcggaacc ggtgagtaca ccggaattac cggaaagact	120
gggtcctttc ttggataaac ccactctatg tccggtcatt tgggcgtgcc cccgcaagac	180
tgctagccga gtagcgttgg gttgcaaagg ccttgtggta ctgcctgata gggtgcttgc	240
<210> 35 <211> 240 <212> DNA <213> Artificial <220> <223> Synt	thetic
<400> 35 cagaaagggt ttagccatgg ggttagtacg agtgtcgtgc agcctccagg ccccccctc	60
ccgggagagc catagtggtc tgcggaaccg gtgagtacac cggaatcgct ggggtgaccg	120
ggtcetttct tggagcaacc cgctcaatac ccagaaattt gggcgtgccc ccgcgagatc	180
actageegag tagtgttggg tegegaaagg eettgtggta etgeetgata gggtgettge	240
<210> 36 <211> 239 <212> DNA <213> Artificial <220> <223> Synt	thetic
<400>. 36 agaaagegtt tagecatgge gttagtatga gtgttgtgca geetecagga ecceeetee	60
cgggagagcc atagtggtct gcggaaccgg tgagtacacc ggaattgcca ggacgaccgg	120
gtcctttctt ggatcaaccc gctcaatgcc tggagatttg ggcgtgcccc cgcaagactg	180
ctagccgagt agtgttgggt cgcgaaaggc cttgtggtac tgcctgatag ggtgcttgc	239
<210> 37 <211> 232 <212> DNA <213> Artificial <220> <223> Synt	:hetic
<400> 37 gtttagccat ggcgttagta tgagtgtcgt gcagcctcca ggacccccc tcccgggaga	60
gccatagtgg tctgcggaac cggtgagtac accggaattg ccaggacgac cgggtccttt	120
cttggatcaa cccgctcaat gcctggagat ttgggcgtgc ccccgcgaga ccgctagccg	180
agtagtgttg ggtcgcgaaa ggccttgtgg tactgcctga tagggtgctt gc	232

<210> 38 <211> 240 <212> DNA <213> Artificial <220> <223> Synthe	tic
<400> 38 gcagaaagcg tttagccatg gcgttagtac gagtgtcgtg cagcctccag gacccccct	60
cccgggagag ccatagtggt ctgcggaacc ggtgagtaca ccggaatcgc tggggtgacc 1	20
gggtcctttc ttggaacaac ccgctcaata cccagaaatt tgggcgtgcc cccgcgagat 1	.80
cactageega gtagtgttgg gtegegaaag geettgtggt aetgeetgat agggtgettg 2	40
<210> 39 <211> 44 <212> DNA <213> Artificial <220> <223> Synthet	ic
<400> 39 tgctctctgg tcgctgtctg aaagacagcg tggtctctcg taat	44
<210> 40 <211> 44 <212> DNA <213> Artificial <220> <223> Synthet	ic
<400> 40 tgctctctgg tcgctgtctg aaagactccg tggtctctcg taat	44
<210> 41 <211> 44 <212> DNA <213> Artificial <220> <223> Synthet	.ic
<400> 41 tgctctctgg tcgctgtctg aatttttttt tggtctctcg taat	44
<210> 42 <211> 14 <212> DNA <213> Artificial <220> <223> Synthet	ic
<400> 42 agaccattac caga	14
<210> 43 <211> 16 <212> DNA <213> Artificial <220> <223> Synthet	ic
<400> 43 gagaccatta ccagag	16
<210> 44 <211> 18 <212> DNA <213> Artificial <220> <223> Synthet	ic
<400> 44 agagaccatt accagaga	18
<210> 45 <211> 18 <212> DNA <213> Artificial <220> <223> Synthet	ic
<400> 45 agagaccatt acaagcga	18
<pre><210> 46 <211> 18 <212> DNA <213> Artificial <220> <223> Synthet</pre>	ic

<400> 46 agcgaacatt accagaga	18
<210> 47 <211> 16 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 47 agagaccaac cagaga	16
<210> 48 <211> 9 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 48 agagaccat	9
<210> 49 <211> 9 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 49 taccagaga	9
<210> 50 <211> 10 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 50 accagagagc	10
<210> 51 <211> 10 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 51 tcagacagcg	10
<210> 52 <211> 18 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 52 agtggtctgc ggaaccgg	18
<210> 53 <211> 18 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 53 agtgtcgttt ggaaccgg	18
<210> 54 <211> 18 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 54 agtgtcgtaa ggaaccgg	18
<210> 55 <211> 18 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 55 agtgtcgtca ggaaccgg	18

<210>	56 <211>	16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> agtgtc	56 gtgg aaccg	a				16
<210>	57 <211>	18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> agtgtc	57 gttt ggatc	cgg				18
<210>	58 <211>	18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> agtgac	58 gttt ggaac	cgg				18
<210>	59 <211>	8 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> ggaacc						8
<210>	60 <211>	20 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> ttttgt	60 gagt acacc	ggaat				20
<210>	61 <211>	14 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> ttttgt	61 gagt acac					14
<210>	62 <211>	15 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> tgagta	62 cacc ggaat					15
<210>	63 <211>	33 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> attccg	63 gtgt actca	ccggt tcca	aaacgac act			33
<210>	64 <211>	18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> cagcct	64 cccc ttctt	gga				18
<210>	65 <211>	20 <212>	DNA <213>	Artificial	<220> <223>	Synthetic

<400> 65 agtgtcgttt ggaattaatt 20
<210> 66 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic
<400> 66 gcgaaaggcc ttgtgg 16
<210> 67 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic
<400> 67 acagcctcca ggaccc 16
<210> 68 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic
<400> 68 gcagcctcca ggaccc 16
<210> 69 <211> 193 <212> DNA <213> Artificial <220> <223> Synthetic
<400> 69 cgtggaggcg atcacaccgc agacgttgat caacatccgg ccggtggtcg ccgcgatcaa 60
ggagttette ggeaceagee agetgageea atteatggae eagaacaace egetgteggg 120
gttgacccac aagegeegac tgteggeget ggggeeegge ggtetgteac gtgagegtge 180
cgggctggag gtc 193
<210> 70 <211> 26 <212> DNA <213> Artificial <220> <223> Synthetic
<400> 70 cgtggaggcg atcacaccgc agacgt 26
<210> 71 <211> 25 <212> DNA <213> Artificial <220> <223> Synthetic
22107 /1 (2117) 23 (2127) DNA (2137) ATCTITICTAT (2207) (2237) Synthetic
<pre><400> 71 gacctccagc ccggcacgct cacgt</pre> 25
<400> 71
<400> 71 gacctccagc ccggcacgct cacgt 25
<pre>< 400> 71 gacctc age ccggc acgt cacgt <</pre>

<210>	73 <211>	20 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> cgccgcg	73 gatc aagga	gttct				20
<210>	74 <211>	20 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> gctcacg	74 gtga cagac	cgccg ,				20
<210>	75 <211>	18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	75 accg ccggg	ccc				18
<210>	76 <211>	121 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> cgccgcg	76 gatc aagga	gttct tcgg	caccag ccag	ctgagc caatt	catgg accagaa	caa 60
cccgctg	gtcg gggtt	gaccc acaa	gcgccg actg	tcggcg ctggg	gcccg gcggtct	gtc 120
a						121
<210>	77 <211>	18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	77 accg ccggg	ccc				18
<210>	78 .<211>	121 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	78 gatc aaggag	gttct tcgg	caccag ccag	ctgagc caatto	catgg accagaa	caa 60
cccgctg	stcg gggtt	gaccc acaa	gegeeg aetg	teggeg etggg	geceg geggtet	gtc 120
t						121
<210>	79 <211>	18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> acagacc	79 :gcc gggcc	cca				18
<210>	80 <211>	119 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	80 Jatc aaggag	gttct tcgg	caccag ccag	ctgagc caatto	catgg accagaa	caa 60
cccgctg	tcg gggtt	gaccc acaa	gegeeg aetg	teggeg etgggg	geceg geggtet	gt 119

<210>	81 <211>	18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	81 gec gggcco	cca				18
<210>	82 <211>	119 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	82 atc aaggag	gttet tegge	caccag ccag	ctgagc caatto	catgg accagaa	caa 60
cccgctg	tog gggttg	gaccc acaaq	gegeeg aetg	teggeg etgggg	geceg geggtet	gg 119
<210>	83 <211>	18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	83 ceg ggece	cag				18
<210>	84 <211>	118 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	84 atc aaggag	gttct tcgg	caccag ccag	ctgagc caatto	catgg accagaa	caa 60
cccgctg	tcg gggttg	gaccc acaaq	gegeeg aetg	teggeg etgggg	geeeg geggtet	g 118
<210>	85 <211>	18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	85 ccg ggccc	cag				18
<210>	86 <211>	118 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> cgccgcg	86 atc aaggag	gttet tegge	caccag ccag	ctgagc caatto	catgg accagaa	caa 60
cccgctg	tcg gggttg	gaccc acaag	gcgccg actg	teggeg etgggg	geeeg geggtet	c 118
<210>	87 <211>	20 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	87 gcc ccagco	geega				20
<210>	88 <211>	114 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> cgccgcg	88 atc aaggag	gttat tagga	caccag ccag	ctgagc caatto	catgg accagaa	caa 60
cccgctg	tcg gggttg	gaccc acaaq	gegeeg actg	teggeg etgggg	gcccg gcgg	114

<210> 89 <211> 20 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 89 gcgccgggcc ccagcgccga	20
<210> 90 <211> 114 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 90 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaa	caa - 60
cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcgc	114
<210> 91 <211> 20 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 91 eggeegggee ceagegeega	20
<210> 92 <211> 114 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 92 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaa	caa 60
cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gccg	114
<210> 93 <211> 18 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 93 cgggccccag cgccgaca	18
<210> 94 <211> 110 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 94 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaa	caa 60
cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg	110
<210> 95 <211> 18 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 95 agggcccag cgccgaca	18
<210> 96 <211> 110 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 96 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaa	caa 60
cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggccct	110
<210> 97 <211> 18 <212> DNA <213> Artificial <220> <223>	Synthetic

<400> 97 ccccagcgcc	gacagtcg	18
<210> 98 <	2211> 106 <212> DNA <213> Artificial <220> <223> Synthematic <220> Sy	etic
<400> 98 cgccgcgatc	aaggagttet teggeaceag ceagetgage eaatteatgg accagaacaa	60
cccgctgtcg	gggttgaccc acaagcgccg actgtcggcg ctgggg	106
<210> 99 <	<211> 18 <212> DNA <213> Artificial <220> <223> Synthet	tic
<400> 99 tcccagcgcc	gacagtcg	18
<210> 100	<211> 106 <212> DNA <213> Artificial <220> <223> Synth	hetic
<400> 100 cgccgcgatc	aaggagttet teggeaceag ceagetgage caatteatgg accagaacaa	60
cccgctgtcg	gggttgaccc acaagegeeg actgteggeg etggga	106
<210> 101	<211> 20 <212> DNA <213> Artificial <220> <223> Syntho	etic
<400> 101 cgcttgtggg	tcaaccccga	20
<210> 102	<211> 87 <212> DNA <213> Artificial <220> <223> Synthe	etic
<400> 102 cgccgcgatc	aaggagttet teggeaceag ceagetgage caatteatgg accagaacaa	60
cccgctgtcg	gggttgaccc acaagcg	87
<210> 103	<211> 20 <212> DNA <213> Artificial <220> <223> Synthe	etic
<400> 103 agcttgtggg	tcaaccccga	20
<210> 104	<211> 87 <212> DNA <213> Artificial <220> <223> Synthe	etic
<400> 104 cgccgcgatc	aaggagttet teggeaceag ceagetgage caatteatgg accagaacaa	60
cccgctgtcg	gggttgaccc acaagct	87
<210> 105	<211> 16 <212> DNA <213> Artificial <220> <223> Syntho	etic

<400> 105					
gtgacagagt tgtt	et				16
<210> 106 <211	> 18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 106 gtgacagatt gttg	tet				18
<210> 107 <211	> 18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 107 gtgacagagc gttg	tct				18
<210> 108 <211	> 18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 108 gtgacagaaa gttg	itct				18
<210> 109 <211	> 18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<220> <221> mir positions are spels.				The residues	at these
<400> 109					
gtgacagann gttg	ctct				18
gtgacagann gttg		DNA <213>	Artificial	<220> <223>	
gtgacagann gttg	> 18 <212>	DNA <213>	Artificial	<220> <223>	
gtgacagann gttg <210> 110 <211 <400> 110 tcacgtgagc gtcc	> 18 <212> atga		· .	<220> <223> <220> <223>	Synthetic
gtgacagann gttg <210> 110 <211 <400> 110 tcacgtgagc gtcc	> 18 <212> atga > 18 <212>		· .		Synthetic
gtgacagann gttg <210> 110 <211 <400> 110 tcacgtgagc gtcc <210> 111 <211 <400> 111 cagaccgcgc acag	> 18 <212> atga > 18 <212>	DNA <213>	Artificial		Synthetic 18 Synthetic
gtgacagann gttg <210> 110 <211 <400> 110 tcacgtgagc gtcc <210> 111 <211 <400> 111 cagaccgcgc acag	> 18 <212> atga > 18 <212> cggg > 17 <212>	DNA <213>	Artificial	<220> <223>	Synthetic 18 Synthetic
gtgacagann gttg <210> 110 <211 <400> 110 tcacgtgagc gtcc <210> 111 <211 <400> 111 cagaccgcgc acag <210> 112 <211 <400> 112 gctcacgata cccc	> 18 <212> atga > 18 <212> cggg > 17 <212> gac	DNA <213>	Artificial Artificial	<220> <223>	Synthetic 18 Synthetic 18 Synthetic 17
gtgacagann gttg <210> 110 <211 <400> 110 tcacgtgagc gtcc <210> 111 <211 <400> 111 cagaccgcgc acag <210> 112 <211 <400> 112 gctcacgata cccc	> 18 <212> atga > 18 <212> cggg > 17 <212> gac > 18 <212>	DNA <213>	Artificial Artificial	<220> <223> <220> <223>	Synthetic 18 Synthetic 18 Synthetic 17

<400> 114 cgccgggcgc tcaa	iccc				18
<210> 115 <21	l> 18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 115 acagtcgggc ggt	gttc				18
<210> 116 <21	1> 18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 116 cgggccccta tgtg	gggtc				18
<210> 117 <21	1> 18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 117 ctcacgtgta tct	ggtcc				18
<210> 118 <21	1> 16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 118 tgacagacgt tgt	tct				16
<210> 119 <21	1> 18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 119 ccccagcggc gtte	gttct				18
<210> 120 <21	1> 16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 120 gtgtcgtttg gaa	ccg				16
<210> 121 <21	1> 16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 121 tgggcgttgc ttg	tgg				16
<210> 122 <21	1> 18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 122 ttgggcgttg ctt	gtggt				18
<210> 123 <21	1> 13 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 123 tccttgatcg cgg					13

<210> 124 <211> 16 <212> DNA <213> Artificial	<220> <223> Synthetic
<400> 124 cttaaggtag gactac	. 16
<210> 125 <211> 16 <212> DNA <213> Artificial	<220> <223> Synthetic
<400> 125 cattttccaa ccttaa	16
<210> 126 <211> 14 <212> DNA <213> Artificial	<220> <223> Synthetic
<400> 126 taaggtagga ctac	14
<210> 127 <211> 16 <212> DNA <213> Artificial	<220> <223> Synthetic
<pre><220> <221> misc_feature <222> (15)(16) <223> position can be any nucleotide.</pre>	The residue at this
<400> 127 taaggtagga ctacnn	16
<210> 128 <211> 18 <212> DNA <213> Artificial	<220> <223> Synthetic
<pre><220> <221> misc_feature <222> (15)(18) <223> position can be any nucleotide.</pre>	The residue at this
<400> 128 taaggtagga ctacnnnn	18
<210> 129 <211> 20 <212> DNA <213> Artificial	<220> <223> Synthetic
<pre><220> <221> misc_feature <222> (15)(20) <223> position can be any nucleotide.</pre>	The residue at this
<400> 129 taaggtagga ctacnnnnnn	20
<210> 130 <211> 22 <212> DNA <213> Artificial	<220> <223> Synthetic
<pre><220> <221> misc_feature <222> (15)(22) <223> position can be any nucleotide.</pre>	The residue at this
<400> 130 taaggtagga ctacnnnnnn nn	22
<210> 131 <211> 24 <212> DNA <213> Artificial	<220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(24) <223> The residue at this position can be any nucleotide. <400> 131 24 taaggtagga ctacnnnnnn nnnn <210> 132 <211> 26 <212> DNA <213> Artificial <220> <223> Synthetic <220> <221> misc_feature <222> (15)..(26) <223> The residue at this position can be any nucleotide. <400> 132 26 taaggtagga ctacnnnnn nnnnnn <210> 133 <211> 30 <212> DNA <213> Artificial <220> <223> Synthetic <220> <221> misc_feature <222> (15)..(30) <223> The residue at this position can be any nucleotide. <400> 133 30 taaggtagga ctacnnnnnn nnnnnnnnn <210> 134 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic <400> 134 14 ttttccaacc ttaa <210> 135 <211> 22 <212> DNA <213> Artificial <220> <223> Synthetic <220> <221> misc_feature <222> (15)..(22) <223> The residue at this position can be any nucleotide. <400> 135 22 ttttccaacc ttaannnnnn nn <210> 136 <211> 26 <212> DNA <213> Artificial <220> <223> Synthetic <220> <221> misc_feature <222> (15)..(26) <223> The residue at this position can be any nucleotide. <400> 136 26 ttttccaacc ttaannnnnn nnnnnn

245

14

<210> 137 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (1)..(14) <223> The residues in these

positions are 2'-0-methyl nucleotides.

<400> 137

gtagtcctac ctta

<210> 138 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic
<220> <221> misc_feature <222> (1)..(14) <223> The residues in these
positions are 2'-O-methyl nucleotides.

<400> 138 ttaaggttgg aaaa

14

<210> 139 <211> 24 <212> DNA <213> Artificial <220> <223> Synthetic <220> <221> misc_feature <222> (15)..(24) <223> The residue at this position can be any nucleotide.

<400> 139 ttttccaacc ttaannnnn nnnn

24

<210> 140 <211> 21 <212> DNA <213> Artificial <220> <223> Synthetic <220> <221> misc_feature <222> (1)..(1) <223> The residue at this 5' end has a tetrachlorofluorescein label.

<400> 140
ngcatcgttt tgggttctct t

21

<210> 141 <211> 987 <212> RNA <213> Artificial <220> <223> Synthetic <400> 141 cacauuguuc ugaucaucug aagaucagcu auuagaagag aaagaucagu uaaguccuuu 60 ggaccugauc agcuugauac aagaacuacu gauuucaacu ucuuuggcuu aauucucucg 120 180 gaaacgauga aauauacaag uuauaucuug gcuuuucagc ucugcaucgu uuuggguucu cuuggcuguu acugccagga cccauaugua caagaagcag aaaaccuuaa gaaauauuuu 240 300 aauqcaqquc auucaqauqu agcggauaau ggaacucuuu ucuuaggcau uuugaagaau uggaaagagg agagugacag aaaaauaaug cagagccaaa uugucuccuu uuacuucaaa 360 cuuuuuaaaa acuuuaaaga ugaccagagc auccaaaaga guguggagac caucaaggaa 420 gacaugaaug ucaaguuuuu caauagcaac aaaaagaaac gagaugacuu cgaaaagcug 480 acuaauuauu cgguaacuga cuugaauguc caacgcaaag caauacauga acucauccaa 540 quqauggcug aacugucgcc agcagcuaaa acagggaagc gaaaaaggag ucagaugcug 600 uuucgagguc gaagagcauc ccaguaaugg uuguccugcc uacaauauuu gaauuuuaaa 660 720 ucuaaaucua uuuaauaaua uuuaacauua uuuauauggg gaauauauuu uuagacucau 780 caaucaaaua aquauuuaua auaqcaacuu uuguquaaug aaaaugaaua ucuauuaaua

				a	uanning and a	840
				cuuaauccuu		040
cuaauuaggc	aaggcuaugu	gauuacaagg	cuuuaucuca	ggggccaacu	aggcagccaa	900
ccuaagcaag	aucccauggg	uuguguguuu	auuucacuug	augauacaau	gaacacuuau	960
aagugaagug	auacuaucca	guuacua				987
				s.	000 7-	
<210> 142	<211> 47	<212> RNA	<213> Artı:	ficial <220)> <223> 5}	nthetic
<400> 142 ggugguggug	ggcgccgucg	gugugggcaa	gagugcgcug	accaucc		47
<210> 143	<211> 589	<212> RNA	<213> Oryo	ctolagus cur	niculus	
<400> 143	uugacacaac	uguguuuacu	ugcaaucccc	caaaacagac	agaauggugc	60
				gggcaaggug		120
						180
				cccauggacc		
				gaacaauccu		240
cucauggcaa	gaaggugcug	gcugccuuca	gugagggucu	gagucaccug	gacaaccuca	300
aaggcaccuu	ugcuaagcug	agugaacugc	acugugacaa	gcugcacgug	gauccugaga	360
acuucaggcu	ccugggcaac	gugcugguua	uugugcuguc	ucaucauuuu	ggcaaagaau	420
ucacùccuca	ggugcaggcu	gccuaucaga	aggugguggc	ugguguggcc	aaugcccugg	480
cucacaaaua	ccacugagau	cuuuuucccu	cugccaaaaa	uuauggggac	aucaugaagc	540
cccuugagca	ucugacuucu	ggcuaauaaa	ggaaauuuau	uuucauugc		589
<210> 144	<211> 289	1 <212> DN	А <213> Но	mo sapiens		
<400> 144 gcgcccagt	cgacgctgag	ctcctctgct	actcagagtt	gcaacctcag	cctcgctatg	60
gctcccagca	geeceeggee	cgcgctgccc	gcactcctgg	tcctgctcgg	ggctctgttc	120
ccaggacctg	gcaatgccca	gacatctgtg	tececetcaa	aagtcatcct	gccccgggga	180
ggctccgtgc	tggtgacatg	cagcacctcc	tgtgaccagc	ccaagttgtt	gggcatagag	240
accccgttgc	ctaaaaagga	gttgctcctg	cctgggaaca	accggaaggt	gtatgaactg	300
agcaatgtgc	aagaagatag	, ccaaccaatg	tgctattcaa	actgccctga	tgggcagtca	360
2020012222	cattactac	· catatactac	, actccagaac	gggtggaact	ggcacccctc	420

ccctcttggc agccagtggg caagaacctt accctacgct gccaggtgga gggtggggca 480 ccccgggcca acctcaccgt ggtgctgctc cgtggggaga aggagctgaa acgggagcca 540 gctgtggggg agcccgctga ggtcacgacc acggtgctgg tgaggagaga tcaccatgga 600 gccaatttct cgtgccgcac tgaactggac ctgcggcccc aagggctgga gctgtttgag 660 aacacetegg ecceetacea getecagace tttgteetge cagegactee eccacaactt 720 gtcagccccc gggtcctaga ggtggacacg caggggaccg tggtctgttc cctggacggg 780 ctgttcccag tctcggaggc ccaggtccac ctggcactgg gggaccagag gttgaacccc 840 acagtcacct atggcaacga ctccttctcg gccaaggcct cagtcagtgt gaccgcagag 900 gacgagggca cccagcggct gacgtgtgca gtaatactgg ggaaccagag ccaggagaca 960 1020 ctgcagacag tgaccatcta cagctttccg gcgcccaacg tgattctgac gaagccagag gtctcagaag ggaccgaggt gacagtgaag tgtgaggccc accctagagc caaggtgacg 1080 ctgaatgggg ttccagccca gccactgggc ccgagggccc agctcctgct gaaggccacc 1140 ccagaggaca acgggcgcag cttctcctgc tctgcaaccc tggaggtggc cggccagctt 1200 1260 atacacaaga accagacccg ggagettegt gteetgtatg geeceegaet ggacgagagg gattgtccgg gaaactggac gtggccagaa aattcccagc agactccaat gtgccaggct 1320 1380 tgggggaacc cattgcccga gctcaagtgt ctaaaggatg gcactttccc actgcccatc 1440 ggggaatcag tgactgtcac tcgagatctt gagggcacct acctctgtcg ggccaggagc actcaagggg aggtcacccg cgaggtgacc gtgaatgtgc tctccccccg gtatgagatt 1500 gtcatcatca ctgtggtagc agccgcagtc ataatgggca ctgcaggcct cagcacgtac 1560 1620 ctctataacc gccagcggaa gatcaagaaa tacagactac aacaggccca aaaagggacc cccatgaaac cgaacacaca agccacgcct ccctgaacct atcccgggac agggcctctt 1680 cctcggcctt cccatattgg tggcagtggt gccacactga acagagtgga agacatatgc 1740 1800 catgcagcta cacctaccgg ccctgggacg ccggaggaca gggcattgtc ctcagtcaga 1860 tacaacagca tttggggcca tggtacctgc acacctaaaa cactaggcca cgcatctgat ctgtagtcac atgactaagc caagaggaag gagcaagact caagacatga ttgatggatg 1920 ttaaagtcta gcctgatgag aggggaagtg gtgggggaga catagcccca ccatgaggac 1980 atacaactgg gaaatactga aacttgctgc ctattgggta tgctgaggcc cacagactta 2040 2100 cagaagaagt ggccctccat agacatgtgt agcatcaaaa cacaaaggcc cacacttcct 2160 gacggatgcc agcttgggca ctgctgtcta ctgaccccaa cccttgatga tatgtattta

ttcatttgtt a	ttttaccag ctatttattg agtgtctttt atgtaggcta aatgaacata 222	20
ggtctctggc c	tcacggagc tcccagtcca tgtcacattc aaggtcacca ggtacagttg 228	30
tacaggttgt a	cactgcagg agagtgcctg gcaaaaagat caaatggggc tgggacttct 234	ł O
cattggccaa c	ctgcctttc cccagaagga gtgatttttc tatcggcaca aaagcactat 240	0
atggactggt a	atggttcac aggttcagag attacccagt gaggccttat tcctcccttc 246	50
ccccaaaac t	gacacettt gttagecace tecceaceca catacattte tgecagtgtt 252	20
cacaatgaca c	tcagcggtc atgtctggac atgagtgccc agggaatatg cccaagctat 258	30
gccttgtcct c	ettgtcctgt ttgcatttca ctgggagctt gcactattgc agctccagtt 264	10
tcctgcagtg a	tcagggtcc tgcaagcagt ggggaagggg gccaaggtat tggaggactc 270	00
cctcccagct t	tggaagggt catccgcgtg tgtgtgtgtg tgtatgtgta gacaagctct 276	50
cgctctgtca c	eccaggetgg agtgcagtgg tgcaatcatg gttcaetgca gtettgaeet 282	20
tttgggctca a	gtgatcete ceaceteage etectgagta getgggacea taggeteaca 288	30
acaccacacc t	289	€1
<210> 145 <	211> 20 <212> DNA <213> Artificial <220> <223> Synthet	ic
<400> 145 ccccaccac t	tecectete	20
<210> 146 <	211> 18 <212> DNA <213> Artificial <220> <223> Synthet	ic
<400> 146 tgggagccat a	agegagge	18
<210> 147 <	2211> 20 <212> DNA <213> Artificial <220> <223> Synthet	cic
<400> 147 gaggagetea g	gegtegaetg	20
<210> 148 <	2211> 20 <212> DNA <213> Artificial <220> <223> Synthet	ic
<400> 148 tgcccatcag g	ggcagtttga 2	20
<210> 149 <	:211> 20 <212> DNA <213> Artificial <220> <223> Synthet	tic
<400> 149 gcccaagctg g	gcatccgtca	20

<210>	150	<211>	18	<212>	DNA	<213>	Artifici	al <220>	<223>	Synth	etic
<400> ctctctc	150 caat	ttggct	ct								18
<210>	151	<211>	33	<212>	DNA	<213>	Artifici	al <220>	<223>	Synth	etic
<400> aaagttt	151 tta	aaaagt	ttga	a agtaa	aagga	a gaa					33
<210>	152	<211>	14	<212>	DNA	<213>	Artifici	al <220>	<223>	Synth	etic
<400> cccctt	152 ttg	aaaa									14
<210>	153	<211>	30	<212>	DNA	<213>	Artifici	al <220>	<223>	Synth	etic
<400> ccctate	153 cttt	aaagtt	ttta	a aaaag	tttga	a					30
<210>	154	<211>	74	<212>	DNA	<213>	Artifici	al <220>	<223>	Synth	etic
<400> ccctato	154 cttt	aaagtt	ttta	a aaaag	tttga	a ccccc	ttttg ggg	gccctat c	tttaaag	tt	60
tttaaaa	aagt	ttga									74
<210>	155	<211>	15	<212>	DNA	<213>	Artifici	al <220>	<223>	Synth	etic
<400> cgcgcgg	155 gaac	gcgcg									15
<210>	156	<211>	16	<212>	DNA	<213>	Artifici	al <220>	<223>	Synth	etic
<400> cccgggt	156 ttt	cccggg									16
<210>	157	<211>	20	<212>	DNA	<213>	Artifici	al <220>	<223>	Synth	etic
<400> aggcgca	157 acca	atttgg	tgti	E							20
<210>	158	<211>	162	21 <212	> RI	NA <213	> Human	immunodef	iciency	virus	
<400> ggucucı	158 icug	guuaga	ccag	g aucug	agccı	ı gggag	cucuc ugg	cuaacua g	ggaaccc	ac	60
ugcuuaa	agcc	ucaaua	aag	c uugcc	uuga	g ugcuu	caagu agu	gugugee e	gucuguu	gu	120

gugacucugg	uaacuagaga	ucccucagac	ccuuuuaguc	aguguggaaa	aucucuagca	180
guggcgcccg	aacagggacc	ugaaagcgaa	agggaaacca	gaggagcucu	cucgacgcag	240
gacucggcuu	gcugaagcgc	gcacggcaag	aggcgagggg	cggcgacugg	ugaguacgcc	300
aaaaauuuug	acuagcggag	gcuagaagga	gagagauggg	ugcgagagcg	ucaguauuaa	360
gcgggggaga	auuagaucga	ugggaaaaaa	uucgguuaag	gccaggggga	aagaaaaaau	420
auaaauuaaa	acauauagua	ugggcaagca	gggagcuaga	acgauucgca	guuaauccug	480
gccuguuaga	aacaucagaa	ggcuguagac	aaauacuggg	acagcuacaa	ccaucccuuc	540
agacaggauc	agaagaacuu	agaucauuau	auaauacagu	agcaacccuc	uauugugugc	600
aucaaaggau	agagauaaaa	gacaccaagg	aagcuuuaga	caagauagag	gaagagcaaa	660
acaaaaguaa	gaaaaaagca	cagcaagcag	cagcugacac	aggacacagc	aaucagguca	720
gccaaaauua	cccuauagug	cagaacaucc	aggggcaaau	gguacaucag	gccauaucac	780
cuagaacuuu	aaaugcaugg	guaaaaguag	uagaagagaa	ggcuuucagc	ccagaaguga	840
uacccauguu	uucagcauua	ucagaaggag	ccaccccaca	agauuuaaac	accaugcuaa	900
acacaguggg	gggacaucaa	gcagccaugc	aaauguuaaa	agagaccauc	aaugaggaag	960
cugcagaaug	ggauagagug	cauccagugc	augcagggcc	uauugcacca	ggccagauga	1020
gagaaccaag	gggaagugac	auagcaggaa	cuacuaguac	ccuucaggaa	caaauaggau	1080
ggaugacaaa	uaauccaccu	aucccaguag	gagaaauuua	uaaaagaugg	auaauccugg	1140
gauuaaauaa	aauaguaaga	auguauagcc	cuaccagcau	ucuggacaua	agacaaggac	1200
caaaggaacc	cuuuagagac	uauguagacc	gguucuauaa	aacucuaaga	gccgagcaag	1260
cuucacagga	gguaaaaaau	uggaugacag	aaaccuuguu	gguccaaaau	gcgaacccag	1320
auuguaagac	uauuuuaaaa	gcauugggac	cagcggcuac	acuagaagaa	augaugacag	1380
caugucaggg	aguaggagga	cccggccaua	aggcaagagu	uuuggcugaa	gcaaugagcc	1440
aaguaacaaa	uucagcuacc	auaaugaugc	agagaggcaa	uuuuaggaac	caaagaaaga	1500
uuguuaagug	uuucaauugu	ggcaaagaag	ggcacacagc	cagaaauugc	agggccccua	1560
ggaaaaaggg	cuguuggaaa	uguggaaagg	aaggacacca	aaugaaagau	uguacugaga	1620
g			*			1621

<210> 159 <211> 1771 <212> RNA <213> Human immunodeficiency virus <400> 159

agcuggacug ucaaugacau acagaaguua guggggaaau ugaauugggc aagucagauu 60 120 uacccaggga uuaaaguaag gcaauuaugu aaacuccuua gaggaaccaa agcacuaaca 180 gaaguaauac cacuaacaga agaagcagag cuagaacugg cagaaaacag agagauucua aaagaaccag uacauggagu guauuaugac ccaucaaaag acuuaauagc agaaauacag 240 300 aagcaggggc aaggccaaug gacauaucaa auuuaucaag agccauuuaa aaaucugaaa 360 acaggaaaau augcaagaau gaggggugcc cacacuaaug auguaaaaca auuaacagag gcagugcaaa aaauaaccac agaaagcaua guaauauggg gaaagacucc uaaauuuaaa 420 cugcccauac aaaaggaaac augggaaaca ugguggacag aguauuggca agccaccugg 480 540 auuccugagu gggaguuugu uaauaccccu cccuuaguga aauuauggua ccaguuagag aaagaaccca uaguaggagc agaaaccuuc uauguagaug gggcagcuaa cagggagacu 600 aaauuaggaa aagcaggaua uguuacuaau agaggaagac aaaaaguugu cacccuaacu 660 gacacaacaa aucagaagac ugaguuacaa gcaauuuauc uagcuuugca ggauucggga 720 780 uuagaaguaa acauaguaac agacucacaa uaugcauuag gaaucauuca agcacaacca 840 gaucaaagug aaucagaguu agucaaucaa auaauagagc aguuaauaaa aaaggaaaag 900 gucuaucugg cauggguacc agcacacaaa ggaauuggag gaaaugaaca aguagauaaa uuagucagug cuggaaucag gaaaguacua uuuuuagaug gaauagauaa ggcccaagau 960 1020 gaacaugaga aauaucacag uaauuggaga gcaauggcua gugauuuuaa ccugccaccu 1080 guaguagcaa aagaaauagu agccagcugu gauaaauguc agcuaaaagg agaagccaug cauggacaag uagacuguag uccaggaaua uggcaacuag auuguacaca uuuagaagga 1140 1200 aaaguuaucc ugguagcagu ucauguagcc aguggauaua uagaagcaga aguuauucca gcagaaacag ggcaggaaac agcauauuuu cuuuuaaaau uagcaggaag auggccagua 1260 1320 aaaacaauac auacugacaa uggcagcaau uucaccggug cuacgguuag ggccgccugu 1380 uggugggcgg gaaucaagca ggaauuugga auucccuaca auccccaaag ucaaggagua guagaaucua ugaauaaaga auuaaagaaa auuauaggac agguaagaga ucaggcugaa 1440 1500 caucuuaaga cagcaguaca aauggcagua uucauccaca auuuuaaaag aaaagggggg 1560 auuggggggu acagugcagg ggaaagaaua guagacauaa uagcaacaga cauacaaacu aaagaauuac aaaaacaaau uacaaaaauu caaaauuuuc ggguuuauua cagggacagc 1620 agaaauccac uuuggaaagg accagcaaag cuccucugga aaggugaagg ggcaguagua 1680 1740 auacaagaua auagugacau aaaaguagug ccaagaagaa aagcaaagau cauuagggau

uauggaaaac	agauggcagg ugaug	gauugu g			1//1
<210> 160	<211> 54 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 160 ggtaatacga	ctcactatag gctgg	gactgt caatg	acata cagaag	ttag tggg	54
<210> 161	<211> 34 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 161 cacaatcatc	acctgccatc tgtt	tccat aatc			34
<210> 162	<211> 37 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 162 ggtaatacga	ctcactatag gtct	ctctgg ttaga	icc		37
<210> 163	<211> 20 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 163 ctctcagtac	aatctttcat				20
<210> 164	<211> 16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 164 aaaactactc	cctgac				16
<210> 165	<211> 16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 165 aaaacctact	ccctga				16
<210> 166	<211> 16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 166 aaaatcctac	tccctg				16
<210> 167	<211> 16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 167 aaaactccta					16
<210> 168	<211> 16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 168 aaaacctcct					16

<210>	169	<211>	16	<212>	DNA	<213>	Artificial	<220>	<223>	Synthetic
<400> aaaatco	169 ctcc	tactcc								16
<210>	170	<211>	16	<212>	DNA	<213>	Artificial	<220> ·	<223>	Synthetic
<400> aaaagto	170 cctc	ctactc								16
<210>	171	<211>	16	<212>	DNA	<213>	Artificial	<220>	<223>	Synthetic
<400> aaaaggt		cctact								16
<210>	172	<211>	16	<212>	DNA	<213>	Artificial	<220>	<223>	Synthetic
<400> aaaaggg	172 gtcc	tcctac								16
<210>	173	<211>	16	<212 ['] >	DNA	<213>	Artificial	<220>	<223>	Synthetic
<400> aaaacg	173 ggtc	ctccta								16
<210>	174	<211>	15	<212>	DNA	<213>	Artificial	<220>	<223>	Synthetic
<400> aaaacg		ctcct								15
<210>	175	<211>	15	<212>	DNA	<213>	Artificial	<220>	<223>	Synthetic
<400> aaaacc		cctcc								15
<210>	176	<211>	15	<212>	DNA	<213>	Artificial	<220>	<223>	Synthetic
<400> aaaagc	176 cggg	tcctc								15
<210>	177	<211>	25	<212>	DNA	<213>	Artificial	<220>	<223>	Synthetic
<400> ctcttg	177 cctt	atggcc	ggg:	t cctca						25
<210>	178	<211>	25	<212>	DNA	<213>	Artificial	<220>	<223>	Synthetic

<400> 178 actcttgcct	tatggccggg tccta	25
<210> 179	<211> 25 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 179 aactcttgcc	ttatggccgg gtcca	25
<210> 180	<211> 25 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 180 aaactcttgc	cttatggccg ggtca	25
<210> 181	<211> 25 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 181 aaaactcttg	ccttatggcc gggta	25
<210> 182	<211> 25 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 182 caaaactctt	gccttatggc cggga	25
	<211> 25 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 183		25
<210> 184	<pre><<211> 25 <212> DNA <213> Artificial <220> <223></pre>	Synthetic
<400> 184 gccaaaacto	: ttgccttatg gccgc	25
<210> 185	5 <211> 25 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 185 agccaaaact	cttgccttat ggccc	25
<210> 186	5 <211> 25 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 180 cagccaaaa	tettgeetta tggea	25
<210> 18	7 <211> 25 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 18 tcagccaaa	7 a ctcttgcctt atgga	25

-210>	100 /2115	28 <2125	DNA <213>	Artificial	<220> <223>	Synthetic
	188	20 (212)				
<400> tcgttc	agcc aaaact	cttg cctta	tgc	•		28
				nifimial	2205 2225	Comthetic
<210>		24 <212>	DNA <213>	Artificial	<220> <223>	Synchecic
<400> ccgtca	189 cgcc tected	ctact ccct				24
<210>	190 <211>	16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> agggag	190 tagg aggagg	3				16
<210>	191 <211>	13 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> ccgtca	191 egec tec					13
<210>	192 <211>	28 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> cggaag	192 gaagc agttgg	gagge gtgad	:ggt			28
<210>	193 <211>	15 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
	<221> mod:		<222> (5).	.(5) <223>	The residue a	t this position
	> 193 gette eteeg					15
<210>	194 <211>	19 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> aaaato	194 ecctg taata	aacc				19
<210>	195 <211>	20 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> aaaagt	195 ccct gtaat	aaacc				20
<210>	196 <211>	26 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> tccttt	196 tccaa agtgg	atttc tgct	ga			26

<210> 197	<211> 25 <212	> DNA <213>	Artificial	<220> <223>	Synthetic
<400> 197	agtggatttc tgc	tc			25
<210> 198	<211> 53 <212	> DNA <213>	Artificial	<220> <223>	Synthetic
<400> 198 cgaaaatttt	gaatttttgt aat	ttgtttt tgtaa	attett tagttt	gtat gtc	53
<210> 199	<211> 21 <212	> DNA <213>	Artificial	<220> <223>	Synthetic
<400> 199	aaagtggatt t				21
<210> 200	<211> 18 <212	> DNA <213>	Artificial	<220> <223>	Synthetic
<400> 200 aaaaccttto					18
<210> 201	<211> 21 <212	2> DNA <213>	Artificial	<220> <223>	Synthetic
<400> 201 ccagaggago	: tttgctggtc a				21
<210> 202	<211> 21 <212	2> DNA <213>	Artificial	<220> <223>	Synthetic
<400> 202 tccagaggag	e g ctttgctggt a				21
<210> 203	3 <211> 24 <212	2> DNA <213>	Artificial	<220> <223>	Synthetic
<400> 203 ctgctgtcc	s c tgtaataaac cc	ga			24
<210> 204	211> 27 <21	2> DNA <213>	Artificial	<220> <223>	Synthetic
<400> 204 atttctgctg	l g tecetgtaat aa	acccg			27
<210> 20!	5 <211> 16 <21	2> DNA <213>	Artificial	<220> <223>	Synthetic
<400> 209 aaáacttca					16
<210> 20	6 <211> 16 <21	2> DNA <213>	Artificial	<220> <223>	Synthetic

<400> 206 aaaaccttca	cctttc	16
<210> 207	<211> 14 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 207 aaaaactgcc	cctt	14
<210> 208	<211> 14 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 208 aaaatactgc		14
<210> 209	<211> 36 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 209 ttttatgtca	ctattatctt gtattactac tgccca	36
<210> 210	<211> 36 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 210 cttttatgtc	actattatct tgtattacta ctgcca	36
<210> 211	<211> 37 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 211 ggcactactt	ttatgtcact attatcttgt attactc	37
<210> 212	<211> 36 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 212 ggcactactt	ttatgtcact attatcttgt attaca	36
<210> 213	<211> 20 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 213 agaggagctt	tgctggtcct	20
<210> 214	<211> 20 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 214 cagaggagct	ttgctggtcc	20
<210> 215	<pre>5 <211> 18 <212> DNA <213> Artificial <220> <223></pre>	Synthetic
<400> 215		18

<210>	216	<211>	19 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> tcacct		agagga	gct				19
<210>	217	<211>	14 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> aaaacc		cact					14
<210>	218	<211>	23 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> aaaacc		tctttt	aaaa ttg				23
<210>	219	<211>	16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> aaaatt		cccctg	ſ				16
<210>	220	<211>	25 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> atatat		tttctt	ttaa aatt	3			25
<210>	221	<211>	35 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> tgtatg		ttgcta	ittat gtcti	actatt cttta	ı		35
<210>	222	<211>	20 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> cactgt		cccaat	ccca				20
<210>	223	<211>	37 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> ctttag	223 tttg	tatgto	tgtt gcta:	ttatgt ctact	ac		37
<210>	224	<211>	19 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> gtaccc	224 ccca	atcccc	:cct				19
<210>	225	<211>	30 <212>	DNA <213>	Artificial	<220> <223>	Synthetic

<400> 225 tggatgaata ctgccatttg tactgctgtc	30
<210> 226 <211> 22 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 226 cegtcaegee tececetgea et	22
<210> 227 <211> 16 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 227 agtgcagggg gcggcg	16
<210> 228 <211> 24 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 228 ccgtcacgcc tccttcacct ttcc	24
<210> 229 <211> 17 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 229 ggaaaggtga aggaggc	17
<210> 230 <211> 18 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 230 cctgcttatc acaatgaa	18
<210> 231 <211> 20 <212> DNA <213> Artificial <220> <223>	Synthetic
<400> 231 acatgcactt gctacgaaac	20
<210> 232 <211> 461 <212> RNA <213> Artificial <220> <223>	Synthetic
<400> 232 ccugcuuauc acaaugaaug uucuccuggg cagcguugug aucuuugcca ccuucgug	ac 60
uuuaugcaau gcaucaugcu auuucauacc uaaugaggga guuccaggag auucaacc	ag 120
gaaaugcaug gaucucaaag gaaacaaaca cccaauaaac ucggaguggc agacugac	aa 180
cugugagaca ugcacuugcu acgaaacaga aauuucaugu ugcacccuug uuucuaca	cc 240
uguggguuau gacaaagaca acugccaaag aaucuucaag aaggaggacu gcaaguau	au 300
cgugguggag aagaaggacc caaaaaagac cuguucuguc agugaaugga uaaucuaa	ug 360
ugcuucuagu aggcacaggg cucccaggcc aggccucauu cuccucuggc cucuaaua	gu 420

caaugauugu	guagccaugc cuaucaguaa aaagauuuuu g	461
<210> 233	<211> 15 <212> DNA <213> Artificial <220> <223> S	ynthetic
<400> 233 ccgccaccaa	aatgc	15
<210> 234	<211> 15 <212> DNA <213> Artificial <220> <223> S	ynthetic
<400> 234 gctggaagat	ggacg	15
<210> 235	<211> 449 <212> RNA <213> Artificial <220> <223>	Synthetic
<400> 235 ccgccaccaa	aaugcagauu uucgugaaaa cccuuacggg gaagaccauc acccucgagg	60
uugaacccuc	ggauacgaua gaaaauguaa aggccaagau ccaggauaag gaaggaauuc	120
cuccugacag	cagagacuga ucuuugcugg caagcagcug gaagauggac guacuuuguc	180
ugacuacaau	auucaaaagg agucuacucu ucaucuugug uugagacuuc gugguggugc	240
uaagaaaagg	aagaagaagu cuuacaccac ucccaagaag aauaagcaca agagaaagaa	300
gguuaagcug	gcuguccuga aauauuauaa gguggaugag aauggcaaaa uuagucgccu	360
ucgucgagag	ugcccuucug augaaugugg ugcuggggug uuuauggcaa gucacuuuga	420
cagacauuau	uguggcaaau guugucuga	449
<210> 236	<211> 24 <212> DNA <213> Artificial <220> <223> S	ynthetic
<400> 236 gggacactcc	accatgaatc actc	24
<210> 237	<211> 24 <212> DNA <213> Artificial <220> <223> S	Synthetic
<400> 237 cgggagagcc	atagtggtct gcgg	24
<210> 238	<211> 18 <212> DNA <213> Artificial <220> <223> S	Synthetic
<400> 238 atttgggcgt	gccccgc	18
<210> 239	<211> 19 <212> DNA <213> Artificial <220> <223> S	Synthetic
<400> 239 gaccgggtcc	tttcttgga	19

<210> 240 <2	11> 328 <212> RNA	<213> Hepatitis C virus	
<400> 240 gggacacucc ac	caugaauc acuccccugu	gaggaacuac ugucuucacg cagaaagcgu	60
cuagecaugg cg	nuaguaug agugucgugc	agccuccagg accccccuc ccgggagagc	120
cauagugguc ug	cggaaccg gugaguacac	cggaauugcc aggacgaccg gguccuuucu	180
uggauaaacc cg	gcucaaugc cuggagauuu	gggcgugccc ccgcaagacu gcuagccgag	240
uaguguuggg ud	gcgaaagg ccuuguggua	cugccugaua gggugcuugc gagugccccg	300
ggaggucucg ua	gaccgugc accaugag		328
<210> 241 <2	211> 24 <212> DNA <	213> Artificial <220> <223> Sy	nthetic
<400> 241 gggacactcc ac	catagatc actc		24
<210> 242 <2	211> 328 <212> RNA	<213> Hepatitis C virus	
<400> 242 gggacacucc ac	ccauagauc acuccccugu	gaggaacuac ugucuucacg cagaaagcgu	60
cuagecaugg cg	guuaguaug agugucgugc	agccuccagg accccccuc ccgggagagc	120
cauagugguc ug	geggaaeeg gugaguaeae	cggaauugcc aggacgaccg gguccuuucu	180
uggaucaacc co	gcucaaugc cuggagauuu	gggcgugccc ccgcgagacu gcuagccgag	240
uaguguuggg ud	cgcgaaagg ccuuguggua	cugccugaua gggugcuugc gagugccccg	300
ggaggucucg ua	agaccgugc accaugag		328
<210> 243 <2	211> 328 <212> RNA	<213> Hepatitis C virus	
<400> 243 gggacacucc ac	ccaugaauc acuccccugu	gaggaacuac ugucuucacg cagaaagcgu	60
cuagecaugg co	guuaguaug agugucguac	agccuccagg cccccccuc ccgggagagc	120
cauagugguc ug	geggaaceg gugaguacae	cggaauugcc gggaagacug gguccuuucu	180
uggauaaacc ca	acucuaugc ccggccauuu	gggcgugccc ccgcaagacu gcuagccgag	240
uagcguuggg ut	ngcgaaagg ccuuguggua	cugccugaua gggugcuugc gagugccccg	300
ggaggucucg ua	agaccgugc accaugag		328

<210> 244 <211> 24 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 244 gggacactcc	accatggate acte	24
<210> 245	<211> 328 <212> RNA <213> Hepatitis C virus	
<400> 245 gggacacucc	accauggauc acuccccugu gaggaacuuc ugucuucacg cggaaagcgc	60
cuagccaugg	cguuaguacg agugucgugc agccuccagg ccccccccuc ccgggagagc	120
cauagugguc	ugcggaaccg gugaguacac cggaaucgcu ggggugaccg gguccuuucu	180
	cgcucaauac ccagaaauuu gggcgugccc ccgcgagauc acuagccgag	240
	ucgcgaaagg ccuuguggua cugccugaua gggugcuugc gagugccccg	300
	uagaccgugc accaugag	328
<210> 246	<211> 26 <212> DNA <213> Artificial <220> <223> Synth	etic
<400> 246 acaagggaag	agagatgagg aaccag	26
<210> 247	<211> 22 <212> DNA <213> Artificial <220> <223> Synth	etic
<400> 247 tttgccttct	catcaccaat gg	22
<210> 248	<211> 17 <212> DNA <213> Artificial <220> <223> Synth	netic
<400> 248 aagggaagag	agatgag	17
<210> 249	<211> 17 <212> DNA <213> Artificial <220> <223> Synth	netic
<400> 249 aggagtttgc		17
<210> 250	<211> 13 <212> DNA <213> Artificial <220> <223> Synth	netic
<400> 250 ggtgctgtcc		13
<210> 251	<211> 19 <212> DNA <213> Artificial <220> <223> Synth	netic
<400> 251	tctttgatg	19

<210> 252	<211> 13 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 252	gga				13
aggacgctga	gga				13
<210> 253	<211> 21 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 253 aacaagtcaa	aatcttctat g				21,
<210> 254	<211> 17 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 254 caatactgca	gatggag				17
<210> 255	<211> 15 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 255 aagccaggta	ttgca				15
<210> 256	<211> 18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 256 ctattgtttc	tgcacaga				18
<210> 257	<211> 20 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 257 aaatgaagaa	gaacatagga				20
<210> 258	<211> 15 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 258 ggtcaagcca	tcaga				15
<210> 259	<211> 1024 <212	> RNA <213	> Homo sapi	ens	
<400> 259 acaagggaag	agagaugagg aaccag	gagcu uguag	aaacc acuuua	auca uauccagg	ag 60
uuugcaagaa	acaggugcuu aacacı	ıaauu caccu	ccuga acaaga	aaaa ugggcugu	ga 120
ccggaacugu	gggcucaucg cugggg	gcugu cauug	gugcu guccug	gcug uguuugga	gg 180
uauucuaaug	ccaguuggag accug	cuuau ccaga	agaca auuaaa	aagc aaguuguc	cu 240
cgaagaaggu	acaauugcuu uuaaaa	aauug gguua	aaaca ggcaca	gaag uuuacaga	ca 300
guuuuggauc	uuugaugugc aaaau	ccaca ggaag	ugaug augaac	agca gcaacauu	ca 360

aguuaagcaa	agagguccuu a	auacguacag	aguucguuuu	cuagccaagg	aaaauguaa	c 420
ccaggacgcu	gaggacaaca (cagucucuuu	ccugcagccc	aauggugcca	ucuucgaac	c 480
uucacuauca	guuggaacag a	aggcugacaa	cuucacaguu	cucaaucugg	cuguggcag	c 540
ugcaucccau	aucuaucaaa a	aucaauuugu	ucaaaugauc	cucaauucac	uuauuaaca	a 600
gucaaaaucu	ucuauguucc	aagucagaac	uuugagagaa	cuguuauggg	gcuauaggg	a 660
uccauuuuug	aguuugguuc (cguacccugu	uacuacuaca	guuggucugu	uuuauccuu	a 720
caacaauacu	gcagauggag	uuuauaaagu	uuucaaugga	aaagauaaca	uaaguaaag	ru 780
ugccauaauc	gacacauaua a	aagguaaaag	gaaucugucc	uauugggaaa	gucacugcg	ra 840
caugauuaau	gguacagaug	cagccucauu	uccaccuuuu	guugagaaaa	gccagguau	ıu 900
gcaguucuuu	ucuucugaua	uuugcagguc	aaucuaugcu	guauuugaau	ccgacguua	a 960
ucugaaagga	aucccugugu	auagauucgu	ucuuccaucc	aaggccuuug	ccucuccag	ju 1020
ugaa						1024
<210> 260	<211> 19 <	212> DNA	<213> Artii	ficial <220)> <223>	Synthetic
<400> 260 atggggtttg	ttaaagttg			·		19
<210> 261	<211> 26 <	212> DNA	<213> Artii	ficial <220)> <223>	Synthetic
<400> 261 gctgggttta	geteteagea	gecege				26
<210> 262	<211> 18 <	212> DNA	<213> Artii	ficial <220	0> <223>	Synthetic
<400> 262 atggggtttg	ttaaagtt					18
<210> 263	<211> 15 <	212> DNA	<213> Arti:	ficial <220	0> <223>	Synthetic
<400> 263 gaagacgacg	agagg					15
<210> 264	<211> 17 <	212> DNA	<213> Arti:	ficial <22	0> <223>	Synthetic
<400> 264 ggatgatagt	tcgtgtg					17
<210> 265	<211> 16 <	212> DNA	<213> Arti	ficial <22	0> <223>	Synthetic

<400> 265 gctgcagcat		16
<210> 266	<211> 16 <212> DNA <213> Artificial <220> <223> Synt	thetic
<400> 266 ctgctatttg		16
<210> 267	<211> 16 <212> DNA <213> Artificial <220> <223> Syn	thetic
<400> 267 gcagaagtac		16
<210> 268	<211> 16 <212> DNA <213> Artificial <220> <223> Syn	thetic
<400> 268 gacatgatgg		16
<210> 269	0 <211> 15 <212> DNA <213> Artificial <220> <223> Syn	thetic
<400> 269 agaagaagga		15
<210> 270	<pre>0 <211> 901 <212> RNA <213> Homo sapiens</pre>	
<400> 270 augggguuug) g uuaaaguugu uaagaauaag gccuacuuua agagauacca agugaaauuu	60
agaagacgac	gagaggguaa aacugauuau uaugcucgga aacgcuuggu gauacaagau	120
aaaaauaaau	acaacacacc caaauacagg augauaguuc gugugacaaa cagagauauc	180
auuugucaga	a uugcuuaugc ccguauagag ggggauauga uagucugcgc acguuaugca	240
cacgaacugo	caaaauaugg ugugaagguu ggccugacaa auuaugcugc agcauauugu	300
acuggccugc	ugcuggcccg caggcuucuc aauagguuug gcauggacaa gaucuaugaa	360
ggccaagugg	g aggugacugg ugaugaauac aauguggaaa gcauugaugg ucagccaggu	420
gccuucaccu	ı gcuauuugga ugcaggccuu gccagaacua ccacuggcaa uaaaguuuuu	480
ggugcccuga	a agggagcugu ggauggaggc uugucuaucc cucacaguac caaacgauuc	540
ccugguuaug	g auucugaaag caaggaauuu aaugcagaag uacaucggaa gcacaucaug	600
ggccagaaug	g uugcagauua caugcgcuac uuaauggaag aagaugaaga ugcuuacaag	660
aaacaguucı	ı cucaauacau aaagaacagc guaacuccag acaugaugga ggagauguau	720
aagaaagcud	c augcugcuau acgagagaau ccagucuaug aaaagaagcc caagaaagaa	780

guuaaaaaga	agagguggaa ccguc	ccaaa auguc	ccuug cucaga	agaa ggaucggg	ua 840
gcucaaaaga	aggcaagcuu ccuca	ıgagcu cagga	gcggg cugcug	agag cuaaaccc	ag 900
С					901
<210> 271	<211> 25 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 271 gctcaagaat	gtccgcatag acccg	I			25
<210> 272	<211> 22 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 272 ctggtccctg	agttgttttt gc				22
<210> 273	<211> 15 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 273 gctcaagaat	gtccg				15
<210> 274	<211> 15 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 274 gggatgtgga	aggag				15
<210> 275	<211> 17 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 275 ggaccctatg					17
<210> 276	<211> 15 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 276 acatcttggt					15
<210> 277	<211> 16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 277 tctcaacacg					16
<210> 278	<211> 14 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 278 cggactcagc					14
<210> 279	<211> 16 <212>	DNA <213>	Artificial	<220> <223>	Synthetic

<400> 279 caagggtgtt		16
<210> 280	<211> 16 <212> DNA <213> Artificial <220> <223> S	Synthetic
<400> 280 ctctgtttct		16
<210> 281	<211> 15 <212> DNA <213> Artificial <220> <223> S	Synthetic
<400> 281 gtgaagatgc		15
<210> 282	<211> 14 <212> DNA <213> Artificial <220> <223> S	Synthetic
<400> 282 agctggtgct		14
<210> 283	<211> 15 <212> DNA <213> Artificial <220> <223> S	Synthetic
<400> 283 caggcctact		15
<210> 284	<211> 14 <212> DNA <213> Artificial <220> <223> S	Synthetic
<400> 284 ggactctctc		14
<210> 285	<211> 1607 <212> RNA <213> Mus musculus	
<400> 285 gcucaagaau	guccgcauag acccgagcag ccuguccuuc gggaugugga aggagauccc	: 60
cgucccuuuc	uacuugucug ucuacuucuu cgaagugguc aacccaaacg agguccucaa	120
cggccagaag	ccaguagucc gggagcgugg acccuauguc uacagggagu ucagacaaaa	180
ggucaacauc	accuucaaug acaacgacac cguguccuuc guggagaacc gcagccucca	240
uuuccagccu	gacaagucgc auggcucaga gagugacuac auuguacugc cuaacaucuu	300
gguccugggg	ggcucgauau ugauggagag caagccugug agccugaagc ugaugaugac	360
cuuggcgcug	gucaccaugg gccagcgugc uuuuaugaac cgcacaguug gugagauccu	420
guggggcuau	gacgaucccu ucgugcauuu ucucaacacg uaccucccag acaugcuucc	480
cauaaagggc	aaauuuggcc uguuuguugg gaugaacaac ucgaauucug gggucuucac	540
ugucuucacg	ggcguccaga auuucagcag gauccaucug guggacaaau ggaacggacu	600

cagcaagauc	gauuauuggc auucag	agca guguaacaug	aucaauggga (cuuccgggca	660
gaugugggca	cccuucauga cacccg	aauc cucgcuggaa	uucuucagcc (ggaggcaug	720
cagguccaug	aagcugaccu acaacg	aauc aaggguguuu	gaaggcauuc	ccacguaucg	780
cuucacggcc	cccgauacuc uguuug	ccaa cggguccguc	uacccaccca a	acgaaggcuu	840
cugcccaugc	cgagagucug gcauuc	agaa ugucagcacc	ugcagguuug 🤉	gugcgccucu	900
guuucucucc	caccccacu uuuaca	acgc cgacccugug	uugucagaag (cuguucuugg	960
ucugaacccu	aacccaaagg agcauu	ccuu guuccuagac	auccauccgg (ıcacugggau	1020
ccccaugaac	uguucuguga agaugc	agcu gagccucuac	aucaaaucug ı	ıcaagggcau	1080
cgggcaaaca	gggaagaucg agccag	uagu ucugccguug	cugugguucg	aacagagcgg	1140
agcaaugggu	ggcaagcccc ugagca	cguu cuacacgcag	cuggugcuga ı	ıgccccaggu	1200
ucuucacuac	gcgcaguaug ugcugc	uggg gcuuggaggc	cuccuguugc 1	ıggugcccau	1260
caucugccaa	cugcgcagcc aggaga	aaug cuuuuuguuu	uggaguggua 🤉	guaaaaaggg	1320
cucccaggau	aaggaggcca uucagg	ccua cucugagucc	cugaugucac (cagcugccaa	1380
gggcacggug	cugcaagaag ccaagc	uaua ggguccugaa	gacacuauaa 🤉	gcccccaaa	1440
ccugauagcu	uggucagacc agccac	ccag ucccuacacc	ccgcuucuug	aggacucucu	1500
cagcggacag	cccaccagug ccaugg	ccug agcccccaga	ugucacaccu (guccgcacgc	1560
acggcacaug	gaugeceaeg caugug	caaa aacaacucag	ggaccag		1607
<210> 286	<211> 43 <212>	DNA <213> Arti:	ficial <220:	> <223> Syn	thetic
<400> 286 taatacgact	cactataggg acggaa	gtcc aagagcatca	ctg		43
<210> 287	<211> 18 <212>	DNA <213> Arti:	ficial <220	> <223> Syn	thetic
<400> 287 gcaggtacct	ggtccgta				18
<210> 288	<211> 15 <212>	DNA <213> Arti:	ficial <220:	> <223> Syn	thetic
<400> 288 ggaagtccaa	gagca				15
<210> 289	<211> 15 <212>	DNA <213> Arti	ficial <220	> <223> Syn	thetic
<400> 289 aatggcttct	ttggg				15

<210> 29	0 <211>	10 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 29 ggcgtcgcc						10
<210> 29	1 <211>	15 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 29						15
<210> 29	2 <211>	17 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 29		g				17
<210> 29	3 <211>	11 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 29						11
<210> 29	4 <211>	18 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 29 gactctact		cca				18
<210> 29	5 <211>	15 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 29						15
<210> 29	6 <211>	14 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 29 caacaagtg						14
<210> 29	7 <211>	13 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 29 aacacggcg						13
<210> 29	8 <211>	14 <212>	DNA <213>	Artificial	<220> <223>	Synthetic
<400> 29						14
<210> 29	9 <211>	14 <212>	DNA <213>	Artificial	<220> <223>	Synthetic

<400> 299 acgctgtttt	cctg					14
<210> 300	<211> 16 <	212> DNA	<213> Artii	Ficial <220	0> <223>	Synthetic
<400> 300 tgagacacct	gtacaa					16
<210> 301	<211> 14 <	212> DNA	<213> Arti	ficial <220	0> <223>	Synthetic
<400> 301 gacggagaca	gtgg					14
<210> 302	<211> 14 <	212> DNA	<213> Artii	ficial <220)> <223>	Synthetic
<400> 302 caagcgaggg	agag					14
<210> 303	<211> 1051	<212> RN	A <213> Rat	tus rattus		
<400> 303 ggaaguccaa	gagcaucacu	gacaucuacc	uccugaaccu	ggccuugagc	gaccugcuc	u 60
uuguggccac	uuugcccuuc	uggacucacu	accucaucag	ccaugagggc	cuccacaac	g 120
ccaugugcaa	gcucacgacu	gcuuucuucu	ucauuggcuu	cuuugggggc	auauucuuc	a 180
ucaccgucau	cagcaucgac	cgguaccucg	ccaucguccu	ggccgccaac	uccaugaac	a 240
accggacagu	gcaacacggc	gucaccauca	gucugggcgu	cugggcggcg	gccaucuua	g 300
uggcgucgcc	ccaguucaug	uucacaaaga	gaaaggacaa	cgaauguuug	ggugauuac	c 360
ccgagguccu	gcaggaaauc	uggcccgugc	uccgcaacuc	ggaggucaac	auccugggc	u 420
ucguccugcc	cuugcuuauc	augagcuuuu	gcuacuuccg	caucguccgg	acgcuguuu	u 480
ccugcaagaa	ccggaagaag	gccagagcca	uuaggcucau	ccucuuggug	guuguuguc	u 540
ucuuccucuu	cuggacgccu	uacaacaucg	ugauuuuccu	ggagacucuc	aaauucuac	a 600
acuucuuccc	uaguuguggc	augaagaggg	accugaggug	ggcccuuagu	gugacggag	a 660
caguggcguu	uagccacugc	ugccucaacc	ccuuuaucua	cgcuuucgcu	ggggaaaag	u 720
ucagaaggua	ccugagacac	cuguacaaca	agugccuggc	cguccugugc	ggucguccu	g 780
uccacgccgg	cuucucaaca	gagucccaga	ggagcaggca	ggacagcauu	cugagcagc	u 840
ugacucacua	cacaagcgag	ggagagggau	cucuccugcu	cugaaggguc	uccccgacc	c 900
cgacucuacu	aagaacccag	aguuccugca	ucugacucug	uguaaugaaa	acagauuca	с 960

acacacacac	acacacaca acacacacac acac	acacac acccegcuce uccugeat	ıuu 1020
uaugugcaag	aaauacggac cagguaccug c		1051
<210> 304	<211> 56 <212> DNA <213>	• Artificial <220> <223>	Synthetic
<400> 304 gtaatttaat	acgactcact atagggaagg tgca	gttttg ccaaggagtg ctaaag	56
<210> 305	<211> 30 <212> DNA <213>	Artificial <220> <223>	Synthetic
<400> 305 ctgattgaaa	tttatctaat aaaacatcat		30
<210> 306	<211> 14 <212> DNA <213>	Artificial <220> <223>	Synthetic
<400> 306 acttccaagc			14
<210> 307	<211> 15 <212> DNA <213>	Artificial <220> <223>	Synthetic
<400> 307 gagagtggac			15
<210> 308	<211> 17 <212> DNA <213>	• Artificial <220> <223>	Synthetic
<400> 308 gaatcagtga			17
<210> 309	<211> 20 <212> DNA <213>	Artificial <220> <223>	Synthetic
<400> 309 cattgtacca	tgaaatatcc		20
<210> 310	<211> 21 <212> DNA <213>	Artificial <220> <223>	Synthetic
<400> 310 gaactttaat	ttcaggaatt g		21
<210> 311	<211> 15 <212> DNA <213>	Artificial <220> <223>	Synthetic
<400> 311 ccctagtctg			. 15
<210> 312	<211> 21 <212> DNA <213>	Artificial <220> <223>	Synthetic
<400> 312			

ttcaagtgta	acttattaac	С				21
<210> 313	<211> 12 ·	<212> DNA	<213> Arti:	ficial <22	0> <223>	Synthetic
<400> 313 aagctggccg	tg					12
<210> 314	<211> 15	<212> DNA	<213> Arti	ficial <22	0> <223>	Synthetic
<400> 314 tgcagttttg	ccaag					15
<210> 315	<211> 1382	2 <212> RN	A <213> Hor	mo sapiens		
<400> 315 ggcagaagua	ccugagcucg	ccagugaaau	gauggcuuau	uacaguggca	augaggaug	a 60
cuuguucuuu	gaagcugaug	gcccuaaaca	gaugaagugc	uccuuccagg	accuggacc	u 120
cugcccucug	gauggcggca	uccagcuacg	aaucuccgac	caccacuaca	gcaagggcu	u 180
caggcaggcc	gcgucaguug	uuguggccau	ggacaagcug	aggaagaugc	ugguucccu	g 240
cccacagacc	uuccaggaga	augaccugag	caccuucuuu	cccuucaucu	uugaagaag	a 300
accuaucuuc	uucgacacau	gggauaacga	ggcuuaugug	cacgaugcac	cuguacgau	c 360
acugaacugc	acgcuccggg	acucacagca	aaaaagcuug	gugaugucug	guccauaug	a 420
acugaaagcu	cuccaccucc	agggacagga	uauggagcaa	caaguggugu	ucuccaugu	c 480
cuuuguacaa	ggagaagaaa	guaaugacaa	aauaccugug	gccuugggcc	ucaaggaaa	a 540
gaaucuguac	cuguccugcg	uguugaaaga	ugauaagccc	acucuacage	uggagagug	u 600
agaucccaaa	aauuacccaa	agaagaagau	ggaaaagcga	uuugucuuca	acaagauag	a (660
aaucaauaac	aagcuggaau	uugagucugc	ccaguucccc	aacugguaca	ucagcaccu	c 720
ucaagcagaa	aacaugcccg	ucuuccuggg	agggaccaaa	ggcggccagg	auauaacug	a 780
cuucaccaug	caauuugugu	cuuccuaaag	agagcuguac	ccagagaguc	cugugcuga	a 840
uguggacuca	aucccuaggg	cuggcagaaa	gggaacagaa	agguuuuuga	guacggcua	u 900
agccuggacu	uuccuguugu	cuacaccaau	gcccaacugc	cugccuuagg	guagugcua	a 960
gaggaucucc	uguccaucag	ccaggacagu	cagcucucuc	cuuucagggc	caaucccca	g 1020
cccuuuuguu	gagccaggcc	ucucucaccu	cuccuacuca	cuuaaagccc	gccugacag	a 1080
aaccacggcc	acauuugguu	cuaagaaacc	cucugucauu	cgcucccaca	uucugauga	g 1140
caaccgcuuc	ccuauuuauu	uauuuauuug	uuuguuuguu	uuauucauug	gucuaauuu	a 1200

uucaaagggg gcaagaagua gcagugucug uaaaagagcc uaguuuuuaa uagcua	ugga 1260
aucaauucaa uuuggacugg ugugcucucu uuaaaucaag uccuuuaauu aagacu	gaaa 1320
auauauaagc ucagauuauu uaaaugggaa uauuuauaaa ugagcaaaua ucauac	uguu 1380
ca	1382
<210> 316 <211> 20 <212> DNA <213> Artificial <220> <223	> Synthetic
<400> 316 gcatcgtttt gggttctctt	20
<210> 317 <211> 20 <212> DNA <213> Artificial <220> <223	> Synthetic
<400> 317 actttaaaga tgaccagagc	20
<210> 318 <211> 20 <212> DNA <213> Artificial <220> <223	> Synthetic
<400> 318 cacattgttc tgatcatctg	20
<210> 319 <211> 20 <212> DNA <213> Artificial <220> <223	> Synthetic
<400> 319 cggtaactga cttgaatgtc	20
<210> 320 <211> 20 <212> DNA <213> Artificial <220> <223	> Synthetic
<400> 320 tagtaactgg atagtatcac	20
	•
<210> 321 <211> 20 <212> DNA <213> Artificial <220> <223:	> Synthetic
<400> 321 gacattcaag tcagttaccg	20
<210> 322 <211> 41 <212> DNA <213> Artificial <220> <223:	> Synthetic
<400> 322 aatttaatac gactcactat acacattgtt ctgatcatct g	41
<210> 323 <211> 41 <212> DNA <213> Artificial <220> <223:	> Synthetic
<400> 323 aatttaatac gactcactat acggtaactg acttgaatgt c	41

<210> 324	4 <211> 20 <212> DNA <213> Artificial <220> <223> Sy	nthetic
<400> 324	4 c tgatcatctg	20
<210> 325	5 <211> 20 <212> DNA <213> Artificial <220> <223> Sy	nthetic
<400> 325 cggtaactga	5 a cttgaatgtc	20
<210> 326	6 <211> 49 <212> DNA <213> Artificial <220> <223> Sy	nthetic
<400> 326 agtaatttad	6 c gactcactat agggacacat tgttctgatc atctgaaga	49
<210> 327	7 <211> 49 <212> DNA <213> Artificial <220> <223> Sy	nthetic
<400> 327 agtaatttad	7 c gactcactat agggacggta actgacttga atgtccaac	49
<210> 328	8 <211> 15 <212> DNA <213> Artificial <220> <223> Sy	nthetic
<400> 328		15
<210> 329	9 <211> 15 <212> DNA <213> Artificial <220> <223> Sy	nthetic
<400> 329 gactcatcaa		15
<210> 330	0 <211> 15 <212> DNA <213> Artificial <220> <223> Sy	nthetic
<400> 330 gattacaago		15
<210> 331	1 <211> 332 <212> RNA <213> Pneumocystis carinii	
<400> 331 gagggucaug	l g aaageggegu gaaaaeguua geuagugaue uggaauaaau ucagauugeg	60
acacugucaa	a auugcgggga agcccuaaag auucaacuac uaagcaguuu guggaaacac	120
agcuguggco	gaguuaauag cccuggguau aguaacaaug uugaauauga aucuuuugcg	180
agaugaaaug	g ggugauccgc agccaagucc uaagggcauu uuugucuaug gaugcaguuc	240
aacgacuaga	a uggcaguggg uauuguaagg aauugcaguu uucuugcagu gcuuaaggua	300
uagucuauco	ucuuucgaaa gaaagaguau au	332

<210> 332	<211> 368	<212> RNA	<213> Candida albicans	
<400> 332 gggaggcaaa	aguagggacg	ccaugguuuc	cagaaauggg ccgcgguguu uuugaccugc	60
uagucgaucu	ggccagacgu	aucugugggu	ggccagcggc gacauaaccu gguacgggga	120
aggccucgaa	gcaguguuca	ccuugggagu	gcgcaagcac aaagagguga gugguguaug	180
ggguuaaucc	cguggcgagc	cgucagggcg	cgaguucugg caguggccgu cguagagcac	240
ggaaagguau	gggcuggcuc	ucugagucgg	cuuaagguac gugccguccc acacgaugaa	300
aagugugcgg	ugcagaauag	uucccacaga	acgaagcugc gccggagaaa gcgauuucuu	360
ggagcaau				368
<210> 333	<211> 165	<212> RNA	<213> Earwig R2 element	
<400> 333 uaggaugaua	gcgcaccugg	ucaucgucuc	ucucagcugc ucacuugcug uucuaaguga	60
uaauaccguu	guuuuuuuag	uggguauucu	uuuacgcuuu cguaggagcg agucccacac	120
ucuuggagca	auccggggua	gugccuaaac	gcauuucuuc aacgu	165
<210> 334	<211> 244	<212> RNA	<213> Bombyx mori	
<400> 334 gccuugcaca	guaguccagc	gguaagggug	uagaucaggc ccgucuguuu cucccccgga	60
gcucgcuccc	uuggcuuccc	uuauauauuu	uaacaucaga aacagacauu aaacaucuac	120
ugauccaauu	ucgccggcgu	acggccacga	ucgggagggu gggaaucucg ggggucuucc	180
gauccuaauc	caugaugauu	acgaccugag	ucacuaaaga cgauggcaug augauccggc	240
gaug			:	244